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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.08/BRD/CEMENT/2014-15

Date: 06.10.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. B.R. Dhananjaya,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of culvert and Improvements of drain and cement concrete road in Kothihosahalli Maruthinagara in Ward No. 08 (Kodigehalli), Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT/593/2013-14 Dated: 03.03.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 1989-2013
1	Standard Consistency	IS-4031 (Part -4)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.08/BRD/SAND/2014-15 : 06.10.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. B.R. Dhananjaya,** Contractor, Bangalore.

Name of Work : Construction of culvert and Improvements of drain and cement concrete road in Kothihosahalli Maruthinagara in Ward No. 08 (Kodigehalli), Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/593/2013-14 Dated: 03.03.2014

Date of Testing : 06.10.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	50	5.00	5.00	95.0	90-100
2.36	158	15.80	20.80	79.2	75-100
1.18	206	20.60	41.40	58.6	55-90
600 Micron	206	20.60	62.00	38.0	35-59
300 Micron	215	21.50	83.50	16.5	8-30
150 Micron	110	11.00	94.50	5.5	0-10

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Job No.: CTCE/BBMP/W.No.08/BRD/AGG/2014-15 : 06.10.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. B.R. Dhananjaya,** Contractor, Bangalore.

Name of Work : Construction of culvert and Improvements of drain and cement concrete road in Kothihosahalli Maruthinagara in Ward No. 08 (Kodigehalli), Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/593/2013-14 Dated: 03.03.2014

Date of Testing : 06.10.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	345	3.45	3.45	96.55	95-100
20	5560	55.60	59.05	40.95	30-70
10	2475	24.75	83.80	16.20	10-35
4.75	1185	11.85	95.65	4.35	0-5

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Job No.: CTCE/BBMP/W.No.08/BRD/STEEL/2014-15 06.10.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.R. Dhananjaya,** Contractor, Bangalore.
Name of the Work	:	Construction of culvert and Improvements of drain and cement concrete road in Kothihosahalli Maruthinagara in Ward No. 08 (Kodigehalli), Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-PMT/593/2013-14 Dated: 03.03.2014
Date of Test	:	06.10.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	557	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.08/BRD/CUBE/2014-15

11.11.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. B.R. Dhananjaya,** Contractor, Bangalore.

Name of the work : Construction of culvert and Improvements of drain and cement concrete road in Kothihosahalli Maruthinagara in Ward No. 08 (Kodigehalli), Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/593/2013-14 Dated: 03.03.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.10.2014	11.11.2014	8.139	478.3	21.26
2	14.10.2014	11.11.2014	8.239	492.3	21.88
3	14.10.2014	11.11.2014	8.365	516.3	22.95

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Reference : EE/BTP/BBMP/E-PMT/593/2013-14 Dated: 03.03.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.10.2014	11.11.2014	8.120	475.5	21.13
2	14.10.2014	11.11.2014	8.230	490.6	21.80
3	14.10.2014	11.11.2014	8.315	512.3	22.77

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Reference	: EE/BTP/BBMP/E-PMT/593/2013-14 Dated: 03.03.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.10.2014	11.11.2014	8.289	480.6	21.36
2	14.10.2014	11.11.2014	8.336	502.3	22.32
3	14.10.2014	11.11.2014	8.475	514.3	22.86

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Reference : EE/BTP/BBMP/E-PMT/593/2013-14 Dated: 03.03.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.10.2014	11.11.2014	8.111	492.5	21.89
2	14.10.2014	11.11.2014	8.260	512.6	22.78
3	14.10.2014	11.11.2014	8.332	528.6	23.49

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Reference : EE/BTP/BBMP/E-PMT/593/2013-14 Dated: 03.03.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.10.2014	11.11.2014	8.095	476.3	21.17
2	14.10.2014	11.11.2014	8.198	502.2	22.32
3	14.10.2014	11.11.2014	8.280	516.3	22.95

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Agency : **Mr. B.R. Dhananjaya,** Contractor, Bangalore.

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Reference : EE/BTP/BBMP/E-PMT/593/2013-14 Dated: 03.03.2014

Sample ID : Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2014	13.11.2014	8.120	475.9	21.15
2	16.10.2014	13.11.2014	8.250	510.3	22.68
3	16.10.2014	13.11.2014	8.310	528.6	23.49

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